Table B-1

SED data table crosswalk: 2020 vs. 2021-22

(Crosswalk)

Trends in research doctorate recipient characteristics Table 1 Table 1-1 Research doctorate recipients from U.S. colleges and universities: 1958–2022 Table 11 Table 1-2 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 12 Table 1-3 Research doctorate recipients, by historical major field of doctorate: Selected years, 1973 Table 14 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and sex: Selected years, 1973 Table 14 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and sex: Selected years, 1973	92-2022		
Table 1 Table 1-1 Research doctorate recipients from U.S. colleges and universities: 1958–2022 Table 11 Table 1-2 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 12 Table 1-3 Research doctorate recipients, by historical major field of doctorate: Selected years, 19 Table 14 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and sex: Selected	92-2022		
Table 1-2 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-2 Table 1-3 Research doctorate recipients, by historical major field of doctorate: Selected years, 19 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and sex: Selected years, 19 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and sex: Selected years, 19 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-2 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-2 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-2 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-3 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-3 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-3 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-3 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-3 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-3 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-4 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-4 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-4 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-4 Research doctorate recipients, by historical broad field of doctorate and 2018 Carnegie Table 1-4 Research doctorate recipients and 2018 Carnegie Table 1-4 Research doctorate recipients and 2018 Carnegie Table 1-4 Research doctorate and 2018 Carnegie Table 1-4 Research doctorate recipients and 2018 Carnegie Table 1-4 Research doctorate	92-2022		
Table 12 Table 1-3 Research doctorate recipients, by historical major field of doctorate: Selected years, 19 Table 14 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and sex: Selected	92-2022		
Table 14 Table 1-4 Research doctorate recipients, by historical broad field of doctorate and sex: Selected			
	years, 1992-2022		
Table 1-5 Research doctorate recipients, by historical major field of doctorate and sex: 2012–22			
Table 17 Table 1-6 Research doctorate recipients, by historical broad field of doctorate and citizenship sta	atus: Selected years, 1977–2022		
Table 18 Table 1-7 Research doctorate recipients, by historical major field of doctorate and citizenship sta	atus: 2012-22		
Table 19 Table 1-8 Research doctorate recipients, by ethnicity, race, and citizenship status: 2012–22			
Table 20 Table 1-9 Male research doctorate recipients, by ethnicity, race, and citizenship status: 2012–22			
Table 21 Table 1-10 Female research doctorate recipients, by ethnicity, race, and citizenship status: 2012–2	22		
Table 23 Table 1-11 U.S. citizen and permanent resident research doctorate recipients, by historical broad f	ield of doctorate, ethnicity, and race: Selected years, 1977–2022		
Table 31 Table 1-12 Median years to research doctorate, by historical major field of doctorate: Selected year	ars, 1972–2022		
Table 39 Table 1-13 Education-related debt of research doctorate recipients, by historical broad field of doc	storate: 2012–22		
Table 34 Table 1-14 Highest educational attainment of either parent of research doctorate recipients: 1970	-2022		
Trends in postgraduation commitments of research doctorate recipients	Trends in postgraduation commitments of research doctorate recipients		
Table 42 Table 2-1 Postgraduation commitment of research doctorate recipients, by historical broad field	of doctorate: Selected years, 1993–2022		
Table 43 Table 2-2 Postgraduation commitment of research doctorate recipients, by sex, citizenship statu	s, ethnicity, and race: Selected years, 1993–2022		
Table 44 Table 2-3 Postgraduation plans of research doctorate recipients with definite commitments, by h	nistorical broad field of doctorate: Selected years, 1993–2022		
Table 45 Table 2-4 Postgraduation plans of research doctorate recipients with definite commitments, by s	sex, citizenship status, ethnicity, and race: Selected years, 1993–2022		
Table 50 Table 2-5 Sources of support for research doctorate recipients with postdoctoral training commi			
	mitments for employment in the United States, by historical broad field of doctorate: Selected years, 1992–2022		
Table 47 Table 2-7 Employment sector of research doctorate recipients with definite postgraduation com	mitments for employment in the United States, by sex, citizenship status, ethnicity, and race: Selected years, 1992–2022		
Table 53 Table 2-8 Research doctorate recipients with temporary visas intending to stay in the United Stat	es after doctorate receipt, by country or economy of citizenship: 2015–22		
Field and demographic characteristics of research doctorate recipients			
Table 13 Table 3-1 Research doctorate recipients, by detailed field of doctorate: 2022			
Table 16 Table 3-2 Research doctorate recipients, by detailed field of doctorate and sex: 2022			
Table 22 Table 3-3 Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnici			
Table 24 Table 3-4 U.S. citizen and permanent resident research doctorate recipients, by major field of doc	•		
Table 32 Table 3-5 Median years to science and engineering research doctorate, by sex, citizenship status	·		
Table 32 Table 3-6 Median years to non-science and engineering research doctorate, by sex, citizenship st	atus, ethnicity, race, and broad field of doctorate: 2022		
Table 27 Table 3-7 Median age and age distribution of research doctorate recipients, by broad field of doc	torate, sex, citizenship status, ethnicity, and race: 2022		
Financial support and education-related debt of research doctorate recipients			
Table 35 Table 4-1 Research doctorate recipients' primary source of financial support, by broad field of do			
Table 36 Table 4-2 Research doctorate recipients' sources of financial support, by broad field of doctorate			
Table 37 Table 4-3 Research doctorate recipients' sources of financial support, by sex and broad field of d	octorate: 2022		

Table B-1
SED data table crosswalk: 2020 vs. 2021-22

(Crosswalk)

(Crosswalk)				
2020	2021-22	Current table title		
Table 38	Table 4-4	Education-related debt of research doctorate recipients, by broad field of doctorate: 2022		
Table 40	Table 4-5	Education-related debt of research doctorate recipients, by sex, citizenship status, ethnicity, and race: 2022		
Table 41	Table 4-6	U.S. citizen and permanent resident research doctorate recipients with graduate education-related debt, by ethnicity, race, and broad field of doctorate: 2022		
Educational	Educational and background characteristics of research doctorate recipients			
Table 30	Table 5-1	Research doctorate recipients who attended community college, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2022		
New	Table 5-2	Research doctorate recipients who earned a bachelor's degree related to doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2022		
Table 29	Table 5-3	Research doctorate recipients who earned a master's degree related to doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2022		
New	Table 5-4	Baccalaureate-origin institution characteristics of research doctorate recipients, by broad field of doctorate: 2022		
Table 33	Table 5-5	Educational attainment of research doctorate recipients' parents, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2022		
Table 28	Table 5-6	Research doctorate recipients reporting one or more functional limitations, by broad field of doctorate, sex, and citizenship status: 2022		
Postgraduat	Postgraduation commitments and salaries of research doctorate recipients			
Table 51	Table 6-1	Research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2022		
Table 51	Table 6-2	U.S. citizen and permanent resident research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2022		
Table 51	Table 6-3	Temporary visa holding research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2022		
Table 52	Table 6-4	Female research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2022		
Table 52	Table 6-5	Male research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2022		
Table 48	Table 6-6	Median basic annual salary for research doctorate recipients with definite postgraduation plans in the United States, by broad field of doctorate, type of postgraduation plans, and sex: 2022		
Table 49	Table 6-7	Median basic annual salary for research doctorate recipients with definite postgraduation plans for employment in the United States, by broad field of doctorate and employment sector: 2022		
Doctorate in	stitutions, location	s, and countries of origins of research doctorate recipients		
Table 2	Table 7-1	Doctorate-granting institutions and research doctorate recipients per institution: 1973–2022		
Table 3	Table 7-2	Top 50 doctorate-granting institutions ranked by total number of research doctorate recipients, by sex: 2022		
Table 4	Table 7-3	Top 20 doctorate-granting institutions ranked by total number of research doctorate recipients, by broad field of doctorate and sex: 2022		
Table 9	Table 7-4	Top 20 doctorate-granting institutions ranked by number of minority U.S. citizen and permanent resident research doctorate recipients, by ethnicity and race: 5-year total, 2017–22		
Table 10	Table 7-5	Top 20 doctorate-granting institutions, ranked by number of research doctorate recipients holding temporary visas: 2022		
Table 5	Table 7-6	State or location of doctorate institution ranked by total number of research doctorate recipients, by field of doctorate and sex: 2022		
Table 26	Table 7-7	Top 10 countries or economies of origin of temporary visa holders earning U.S. research doctorates, by country or economy of citizenship and field of doctorate: 2012–22		
Table 25	Table 7-8	Top 40 countries or economies of origin of temporary visa holders earning U.S. research doctorates, by number of doctorate recipients: 2022		
New	Table 7-9	Top 20 baccalaureate-origin institutions ranked by 2018 Carnegie Classification category and total number of research doctorate recipients, by field of doctorate: 2022		
Table 6	Table 7-10	Research doctorate recipients, by state or location of doctorate institution and broad field of doctorate: 2022		
Statistical p	rofiles of research	doctorate recipients		
Table 54	Table 8-1	Science and engineering research doctorate recipients, statistical profile by sex and broad field of doctorate: 2022		
Table 54	Table 8-2	Non-science and engineering research doctorate recipients, statistical profile by sex and broad field of doctorate: 2022		
Table 56	Table 8-3	Agricultural sciences and natural resources research doctorate recipients, statistical profile by sex and major field of doctorate: 2022		
Table 56	Table 8-4	Biological and biomedical sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2022		
Table 60	Table 8-5	Computer and information sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2022		
Table 64	Table 8-6	Engineering research doctorate recipients, statistical profile by sex and major field of doctorate: 2022		

Table B-1
SED data table crosswalk: 2020 vs. 2021–22

(Crosswalk)

(Crosswalk)		
2020	2021-22	Current table title
Table 58	Table 8-7	Geosciences, atmospheric, and ocean sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 56	Table 8-8	Health sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 60	Table 8-9	Mathematics and statistics research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
New	Table 8-10	Multidisciplinary/ interdisciplinary sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 58	Table 8-11	Physical sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 62	Table 8-12	Psychology research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 63	Table 8-13	Social sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 66	Table 8-14	Education research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 68	Table 8-15	Humanities research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 70	Table 8-16	Business research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 70	Table 8-17	Visual and performing arts research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 70	Table 8-18	Other non-science and engineering research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
Table 72	Table 8-19	Statistical profile of research doctorate recipients, by ethnicity, race, and citizenship status: 2022
Postgraduati	on plans of resea	rch doctorate recipients
Table 55	Table 9-1	Science and engineering research doctorate recipients, postgraduation plans by sex and broad field of doctorate: 2022
Table 55	Table 9-2	Non-science and engineering research doctorate recipients, postgraduation plans by sex and broad field of doctorate: 2022
Table 57	Table 9-3	Agricultural sciences and natural resources research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 57	Table 9-4	Biological and biomedical sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 61	Table 9-5	Computer and information sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 65	Table 9-6	Engineering research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 59	Table 9-7	Geosciences, atmospheric, and ocean sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 57	Table 9-8	Health sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 61	Table 9-9	Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
New	Table 9-10	Multidisciplinary/ interdisciplinary sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 59	Table 9-11	Physical sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 62	Table 9-12	Psychology research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 63	Table 9-13	Social sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 67	Table 9-14	Education research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 69	Table 9-15	Humanities research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 71	Table 9-16	Business research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 71	Table 9-17	Visual and performing arts research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 71	Table 9-18	Other non-science and engineering research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022
Table 72	Table 9-19	Postgraduation plans of research doctorate recipients, by ethnicity, race, and citizenship status: 2022
Technical tal	oles	
Table A-2	Table A-1	Research doctoral degrees included in the Survey of Earned Doctorates: 2018–22
Table A-3	Table A-2	Survey response rates: 1970–2022

Table B-1

SED data table crosswalk: 2020 vs. 2021-22

(Crosswalk)

2020	2021-22	Current table title
Table A-4	Table A-3	Item response rates: 2012–22
Table A-6	Table A-4	SED field of doctorate taxonomy, by SED-CIP series/ codes: 2022
New	Table A-5	Doctoral SED-CIP codes in new broad, major, and detailed fields: 2022
New	Table A-6	Doctoral SED-CIP code crosswalk to historical broad, major and fine fields: 2022
New	Table B-1	SED data table crosswalk: 2020 vs. 2021 and 2022
New	Table B-2	Crosswalk of historical broad fields and their constituent fields in the SED data tables and the summary report

CIP = Classification of Instructional Programs; SED = Survey of Earned Doctorates.

Note(s):

Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection. The new broad, major, and detailed fields were used in tables reporting data from 2021 to the present, and the historical broad and major fields were used in the tables reporting multiple data years. As a result, the data tables were reorganized and renumbered in 2021 and the field of doctorate data may not be comparable to subsequent years.

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.